

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method for transmitting packets comprising a synchronization part and a payload part, the payload part comprising a first data sequence and a second data sequence, said method comprising the steps of:

sending and encoding the first data sequence using a first encoding scheme;

sending a the synchronization part using the first encoding scheme;

encoding and sending the payload part using a second encoding scheme on the a sender side; and

receiving and decoding the first data sequence;

detecting the synchronization part and synchronizing and adapting said receiving and decoding the receiver and decoder;

receiving and decoding the second data sequence on the a receiver side;

wherein the method comprises the further steps of:

sending a shortened synchronization part using the first encoding scheme, followed by sending the first data sequence using the first encoding scheme, followed by sending the second data sequence using the second encoding scheme instead on the sender side; and

detecting the shortened synchronization part;

receiving and decoding the first data sequence;

detecting the end of the first data sequence and synchronizing and adapting the said receiving and decoding; and receiver and decoder;

receiving and decoding the second data sequence on the receiver side,
wherein the first encoding scheme is a line coding enabling the synchronization in the receiver.

2. (original): The method according to claim 1, wherein the first data sequence is Manchester encoded and wherein the second data sequence is non-return-to-zero encoded.

3. (currently amended): The method according to claim 1, wherein said ~~adaptation~~ adapting and said decoding is dependent on the received signal pattern.

4. (currently amended): The method according to claim 1, wherein said ~~adaptation~~ adapting and said decoding is time dependent.

5. (original): The method according to claim 1, wherein said second encoding comprises further encodings.

6. (currently amended): A sender for transmitting packets comprising a synchronization part and a payload part, said sender comprising:
a serialization unit for serialization data; and
an encoding unit for encoding said serialized data,
wherein said serialization unit is adapted to generate a ~~the~~ the synchronization part using a first encoding scheme, followed by a first data sequence of the payload part using the first encoding scheme, followed by a second data sequence using ~~the a~~ a second encoding scheme,

wherein the first encoding scheme is a line coding enabling a synchronization in a receiver.

7. (currently amended): A receiver for receiving packets comprising a synchronization part and a payload part, said receiver comprising:

- a detector unit for detecting ~~a~~ the synchronization part encoded in a first encoding scheme; ~~and~~
- a control unit for adapting the receiver characteristics; ~~and wherein the receiver comprises~~
- a decoder adapted to decode a first data sequence of the payload part, encoded in the first encoding scheme,
- wherein said detector unit is adapted to detect the end of said first data sequence, said control unit is adapted to adapt the decoder, and said decoder for decoding a second data sequence of the payload part, encoded in a second encoding scheme, and
- wherein the first encoding scheme is a line coding enabling a synchronization in the receiver.

8. (currently amended): An optical networking element for transmitting packets comprising a synchronization part and a payload part, said optical networking element comprising ~~a~~ the sender according to claim 6.

9. (currently amended): An optical networking element for transmitting packets comprising a synchronization part and a payload part, said optical networking element comprising a ~~the~~ receiver according to claim 7.